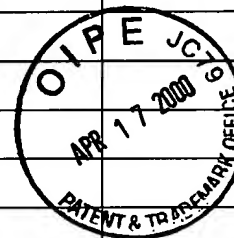


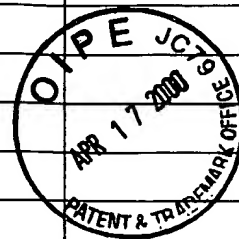
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INFORMATION DISCLOSURE CITATION IN AN APPLICATION			Applicant Gary Karlin Michelson			
(Use several sheets if necessary) Sheet <u>1</u> of <u>3</u>			Filing Date October 4, 1999		Group Art Unit 3732	Examiner
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MB	Des. 245,259	8/1977	Shen			
	Des. 257,511	11/1980	Zahn			
	Des. 260,525	9/1981	Lassiter			
	Des. 281,814	12/1985	Pratt et al.			
	Des. 397,439	8/1998	Koros et al.			
	Re. 31,865	4/1985	Roux			
	Re. 34,871	3/1995	McGuire et al.			
	350,420	10/1886	Dillon			
	1,137,585	4/1915	Craig			
	2,065,659	12/1936	Cullen			
	2,181,746	11/1939	Siebrandt			
	2,243,718	5/1941	De G. Moreira			
	2,372,622	3/1945	Fassio			
	2,514,665	7/1950	Myller			
	2,537,070	1/1951	Longfellow			
	2,543,780	3/1951	Hipps et al.			
	2,677,369	5/1954	Knowles			
	2,774,350	12/1956	Cleveland			
	2,789,558	4/1957	Rush			
	2,832,343	4/1958	Mose			
	2,842,131	7/1958	Smith			
	2,878,809	3/1959	Treace			
	3,128,768	4/1964	Geistauts			
	3,298,372	1/1967	Feinberg			
	3,426,364	2/1969	Lumb			
	3,486,505	12/1969	Morrison			
	3,604,487	9/1971	Gilbert			
	3,605,123	9/1971	Hahn			
	3,618,611	11/1971	Urban			
	3,709,219	1/1973	Halloran			



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APR 20 2000

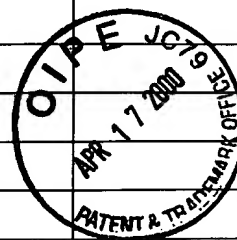
MB	3,720,959	3/1973	Hahn			
	3,750,652	8/1973	Sherwin			
	3,848,601	11/1974	Ma et al.			
	3,855,638	12/1974	Pilliar			
	3,867,728	2/1975	Stubstad et al.			
	3,867,950	2/1975	Fischell			
	3,875,595	4/1975	Froning			
	3,888,260	6/1975	Fischell			
	3,892,232	7/1975	Neufeld			
	3,905,047	9/1975	Long			
	3,915,151	10/1975	Kraus			
	3,916,907	11/1975	Peterson			
	3,918,440	11/1975	Kraus			
	3,942,535	3/1976	Schulman			
	3,948,262	4/1976	Zaffaroni			
	3,952,334	4/1976	Bokros et al.			
	3,987,499	10/1976	Scharbach et al.			
	4,016,651	4/1977	Kawahara et al.			
	4,027,392	6/1977	Sawyer et al.			
	4,051,905	10/1977	Kleine			
	4,059,115	11/1977	Jumashev et al.			
	4,070,514	1/1978	Entherly et al.			
	4,082,097	4/1978	Mann et al.			
	4,086,701	5/1978	Kawahara et al.			
	4,124,026	11/1978	Berner et al.			
	4,142,517	3/1979	Stravropoulos et al.			
	4,168,326	9/1979	Broemer et al.			
	4,175,555	11/1979	Herbert			
	4,177,524	12/1979	Grell et al.			
	4,181,457	1/1980	Holmes			
	4,197,850	4/1980	Schulman et al.			
	4,206,516	6/1980	Pilliar			
	4,222,128	9/1980	Tomonaga et al.			
	4,232,679	11/1980	Schulman			
	4,232,679 B1	5/1988	Schulman			
	4,237,948	12/1980	Jones et al.			
	4,258,716	3/1981	Sutherland			
V	4,259,072	3/1981	Hirabayashi et al.			



TECHNOLOGY CENTER 3700

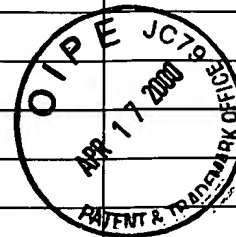
RECEIVED
APR 20 2000

MB	4,262,369	4/1981	Roux			
	4,271,832	6/1981	Evans et al.			
	4,289,123	9/1981	Dunn			
	4,293,962	10/1981	Fuson			
	4,309,777	1/1982	Patil			
	4,328,593	5/1982	Sutter et al.			
	4,333,469	6/1982	Jeffcoat et al.			
	4,341,206	7/1982	Perrett et al.			
	4,349,921	9/1982	Kuntz			
	4,356,572	11/1982	Guillemin et al.			
	4,401,112	8/1983	Rezaian			
	4,405,319	9/1983	Cosentino			
	4,414,979	11/1983	Hirshorn et al.			
	4,423,721	1/1984	Otte et al.			
	4,439,152	3/1984	Small			
	4,450,834	5/1984	Fischer			
	4,484,570	11/1984	Sutter et al.			
	4,492,226	1/1985	Belykh et al.			
	4,497,320	2/1985	Nicholson et al.			
	4,501,269	2/1985	Bagby			
	4,507,115	3/1985	Kambara et al.			
	4,530,360	7/1985	Duarte			
	4,535,374	8/1985	Anderson et al.			
	4,535,485	8/1985	Ashman et al.			
	4,542,539	9/1985	Rowe, Jr. et al.			
	4,545,374	10/1985	Jacobson			
	4,547,390	10/1985	Ashman et al.			
	4,549,547	10/1985	Brighton et al.			
	4,552,200	11/1985	Sinha et al.			
	4,553,273	11/1985	Wu			
	4,554,914	11/1985	Kapp et al.			
	4,570,623	2/1986	Ellison et al.			
	4,570,624	2/1986	Wu			
	4,592,346	6/1986	Jurgutis			
	4,599,086	7/1986	Doty			
	4,600,000	7/1986	Edwards			
	4,602,638	7/1986	Adams			
✓	4,604,995	8/1986	Stephens			



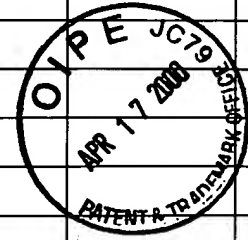
RECEIVED
APR 20 2000
TECHNOLOGY CENTER 3700

MB	4,608,052	8/1986	Van Kampen et al.		
	4,611,581	9/1986	Steffee		
	4,619,264	10/1986	Singh		
	4,628,921	12/1986	Rousso		
	4,634,720	1/1987	Dorman et al.		
	4,636,217	1/1987	Ogilvie et al.		
	4,636,526	1/1987	Dorman et al.		
	4,645,503	2/1987	Lin et al.		
	4,653,486	3/1987	Coker		
	4,655,777	4/1987	Dunn		
	4,661,536	4/1987	Dorman et al.		
	4,664,567	5/1987	Edwards		
	4,665,920	5/1987	Campbell		
	4,677,883	7/1987	Lee		
	4,677,972	7/1987	Tornier		
	4,693,721	9/1987	Ducheyne		
	4,696,290	9/1987	Steffee		
	4,698,375	10/1987	Dorman et al.		
	4,710,075	12/1987	Davison		
	4,713,004	12/1987	Linkow et al.		
	4,714,469	12/1987	Kenna		
	4,721,103	1/1988	Freedland		
	4,736,738	4/1988	Lipovsek et al.		
	4,743,256	5/1988	Brantigan		
	4,743,260	5/1988	Burton		
	4,759,766	7/1988	Buettner-Janz et al.		
	4,759,769	7/1988	Hedman et al.		
	4,769,881	9/1988	Pedigo et al.		
	4,781,591	11/1988	Allen		
	4,790,303	12/1988	Steffee		
	4,805,602	2/1989	Puno et al.		
	4,820,305	4/1989	Harms et al.		
	4,830,000	5/1989	Shutt		
	4,834,757	5/1989	Brantigan		
	4,848,327	7/1989	Perdue		
	4,851,008	7/1989	Johnson		
	4,863,476	9/1989	Shepperd		
✓	4,863,477	9/1989	Monson		



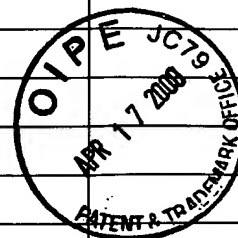
RECEIVED
APR 20 2000
TECHNOLOGY CENTER 3700

MB	4,865,603	9/1989	Noiles			
	4,877,020	10/1989	Vich			
	4,878,915	11/1989	Brantigan			
	4,903,882	2/1990	Long			
	4,904,260	2/1990	Ray et al.			
	4,904,261	2/1990	Dove et al.			
	4,911,718	3/1990	Lee et al.			
	4,913,144	4/1990	Del Medico			
	4,936,848	6/1990	Babgy			
	4,943,291	7/1990	Tanguy			
	4,955,885	9/1990	Meyers			
	4,955,908	9/1990	Frey et al.			
	4,957,495	9/1990	Kluger			
	4,960,420	10/1990	Goble et al.			
	4,961,740	10/1990	Ray et al.			
	4,968,316	11/1990	Hergenroeder			
	4,969,888	11/1990	Scholten et al.			
	4,987,904	1/1991	Wilson			
	5,015,247	5/1991	Michelson			
	5,015,255	5/1991	Kuslich			
	5,026,373	6/1991	Ray et al.			
	5,030,236	7/1991	Dean			
	5,055,104	10/1991	Ray			
	5,059,193	10/1991	Kuslich			
	5,062,845	11/1991	Kuslich et al.			
	5,071,437	12/1991	Steffee			
	5,084,050	1/1992	Draenert			
	5,102,414	4/1992	Kirsch			
	5,108,422	4/1992	Green et al.			
	5,112,336	5/1992	Krevolin et al.			
	5,116,304	5/1992	Cadwell			
	5,122,130	6/1992	Keller			
	5,123,926	6/1992	Pisharodi			
	5,171,278	12/1992	Pisharodi			
	5,192,327	3/1993	Brantigan			
	5,246,458	9/1993	Graham			
	5,258,031	11/1993	Salib et al.			
	5,263,953	11/1993	Bagby			



RECEIVED
APR 20 2000
TECHNOLOGY CENTER 3700

MB	5,292,252	3/1994	Nickerson et al.			
	5,306,309	4/1994	Wagner et al.			
	5,314,427	5/1994	Goble et al.			
	5,324,295	6/1994	Shapiro			
	5,352,229	10/1994	Goble et al.			
	5,360,430	11/1994	Lin			
	5,364,399	11/1994	Lowery et al.			
	5,370,662	12/1994	Stone et al.			
	5,370,697	12/1994	Baumgartner			
	5,393,036	2/1995	Sheridan			
	5,396,880	3/1995	Kagan et al.			
	5,397,364	3/1995	Kozak et al.			
	5,425,772	6/1995	Brantigan			
	5,435,723	7/1995	O'Brien			
	5,443,514	8/1995	Steffee			
	5,458,638	10/1995	Kuslich et al.			
	5,489,307	2/1996	Kuslich et al.			
	5,489,308	2/1996	Kuslich et al.			
	5,571,109	11/1996	Bertagnoli			
	5,571,190	11/1996	Ulrich et al.			
	5,609,635	3/1997	Michelson			
	5,669,909	9/1997	Zdeblick et al.			
	5,683,463	11/1997	Godefroy et al.			
	5,766,252	6/1998	Henry et al.			
	5,782,919	7/1998	Zdeblick et al.			
	5,800,547	9/1998	Schafer et al.			
	5,906,616	5/1999	Pavlov et al.			

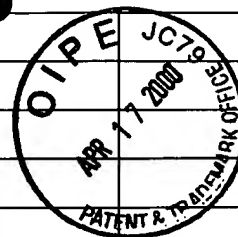


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APR 20 2000
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FOREIGN PATENT DOCUMENTS

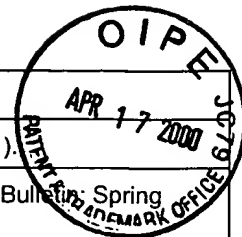
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION (YES/NO)
MB	0 077 159	4/1983	Europe			
	0 162 005 -	11/1985	Europe			
	0 179 695 -	9/1985	Europe			Abstract Only
	0 260 044	8/1988	Europe			Yes
	0 303 241 A2	2/1989	Europe			
	0 307 241	3/1989	Europe			Yes
	0 493 698 A1 -	7/1992	Europe	A61F	2/44	Abstract Only
	0 499 465 A1	8/1992	Europe			

MB	0 551 187 A1	7/1993	Europe			
	0 577 179 A1	1/1994	Europe			
	0 599 419 A2	6/1994	Europe			Yes
	0 627 204 A2	12/1994	Europe			Abstract Only
	0 732 093 A2	9/1996	Europe			N/A
	0 179 695	4/1986	France			
	2 581 336	11/1986	France			
	2 295 729	7/1976	France			No
	2 703 580	10/1994	France			No
	1 961 531	7/1970	Germany			
	24 46 039	4/1975	Germany			No
	31 01 333 A1	12/1981	Germany			
	31 32 520 A1	6/1982	Germany			
	35 05 567 A1	6/1986	Germany			
	36 08 163 A1	9/1987	Germany			No
	41 04 359 A1	8/1992	Germany			No
	43 02 397 A1	7/1993	Germany			
	2076657 A	12/1981	Great Britain			N/A
	2082754 A	3/1982	Great Britain			N/A
	2126094 A	3/1984	Great Britain			N/A
	2164277 A	3/1986	Great Britain			N/A
	57-29348	2/1982	Japan			
	60-31706	2/1985	Japan			No
	60-43984	3/1985	Japan			No
	61-122859	6/1986	Japan			No
	62-155846	7/1987	Japan			Claims Only
	84/01298	4/1984	PCT			N/A
	91/06266	5/1991	PCT			N/A
	92/14423	9/1992	PCT			N/A
	93/01771	2/1993	PCT			N/A
	96/22747	8/1996	PCT			N/A
	1107854	8/1984	Soviet Union	623	17	Abstract Only
	1124960	11/1984	Soviet Union			
	1217374	3/1986	Soviet Union			
	1222254	4/1986	Soviet Union			
	283078	5/1985	Spain			No
	106 101	7/1939	Sweden			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						



RECEIVED
APR 20 2000
TECHNOLOGY CENTER 3700

mb	Adams et al.; Outline of Orthopaedics, Eleventh Edition; Trunk and Spine, p. 194.
	Albrektsson, T., et al.; Osseointegrated Titanium Implants; Acta. Orthop. Scand.; Vol. 52:155-170 (1981).
	Bagby, George W.; Wobbler Syndrome in Horses (the Ataxic Horse); Spokane County Medical Society Bulletin, Spring 1979.
	Bagby, George W.; Basket Implant Facilitates Spinal Fusion; Orthopedics Today, Vol. 7, No. 10 (October 1987).
	Bagby, George W.; Arthrodesis by the Distraction-Compression Method Using a Stainless Steel Implant; Orthopedics, Vol. II, No. 6, pp. 931-34 (June 1987).
	Brandt, L., et al.; A Dowell Insert for Anterior Cervical Interbody Fusion; J. Neurosurg. 61:793-794 (October 1984).
	Butts, M.K., et al.; Biomechanical Analysis of a New Method for Spinal Interbody Fixation; 1987 Symposium, American Society of Mechanical Engineers, "Advances in Bioengineering", Boston, MA (December 13-18, 1987).
	Crawley et al.; A Modified Cloward's Technique for Arthrodesis of the Normal Metacarpophalangeal Joint in the Horse; Veterinary Surgery, Vol. 17, No. 3, pp. 117-127 (1988).
	Crock, Henry V.; Practice of Spinal Surgery; Springer-Verlag/Wien, New York (1983).
	Danek Group, Inc.; Spine Basics, Glossary (1993).
	DeBowes, R.M., et al.; Study of Bovine... Steel Baskets; Transactions of the 29 th Annual Meeting; Orthopaedic Research Society, Vol. 8, p. 407, March 8-10 (1983).
	EBI Medical Systems; The SpF-T Spinal Fusion Stimulator: An Efficacious Adjunct that Meets the Diverse Needs of Spine Patients; (August 1991).
	EBI Medical Systems; The Use of Direct Current for Electrically Induced Osteogenesis: The Positive Effect of an Electronegative Charge on Bone Growth; (Feb. 1993).
	European Search Report dated August 4, 1999 for European Patent Application No. 96917084 in the name of Gary Karlin Michelson.
	European Search Report dated January 12, 2000 for European Patent Application No. 96918001 in the name of Gary Karlin Michelson.
	Gillingham, F.J., et al.; Automatic Patient Monitoring in the Ward; Brit. J. Surg., Vol. 53, No. 10, pp. 864-866 (October 1966).
	Gillingham, F.J., et al.; Head Injuries: Proceedings of the 18 th World Congress of the International College of Surgeons, Rome, pp. 68-71 (May 28-31, 1972).
	Goldthwaite, N., et al.; Toward Percutaneous Spine Fusion; Ch. 45; Lumbar Spine Surgery; C.V. Mosby Company, pp. 512-522 (1987).
	Harris, P., et al.; Spinal Deformity After Spinal Cord Injury; Paraplegia, Vol. 6, No. 4, pp. 232-238 (February 1969).
	Herkowitz et al.; Principles of Bone Fusion; The Spine, Third Edition; Chapter 44, p. 1739.
	Itoman, M., et al.; Banked Bone Grafting for Bone Defect Repair—Clinical Evaluation of Bone Union and Graft Incorporation; J. Jpn. Orthop. Assoc. 62:461-469 (1988).
	Kane, W.J.; Direct Current Electrical Bone Growth Stimulation for Spinal Fusion; Spine, Vol. 13, No. 3, pp. 363-365 (March 1988).
	Lumbar Spine Surgery, Techniques & Complications; History of Lumbar Spine Surgery (1994) pp. 11-15; 27; 30; 35-45; 265-268.
	Maloney, A.F.J., et al.; Clinical and Pathological Observations in Fatal Head Injuries; Brit. J. Surg., Vol. 56, No. 1, pp. 23-31 (January 1969).
	Mörscher, E., et al.; Die vordere Verplattung der Halswirbelsäule mit dem Hohlschrauben-Plattensystem aus Titanium; Der Chirurg. Vol. 57, pp. 702-707 (1986) with English Translation.
	Muschler et al.; The Biology of Spinal Fusion; Spinal Fusion Science and Technique, Cotler and Cotler, pp. 9-13.
	Mylonas, C., et al.; Anterior Cervical Decompression and Fusion Using the Coventry Cervical Spreader and Dowel Insert; British Journal of Neurosurgery; 7:545-549 (1993).
	O'Neill, P., et al.; Spinal Meningoceles in Association with Neurofibromatosis; Neurosurgery, Vol. 13, No. 1, pp. 82-84 (July 1983).



MB	Otero-Vich, Jose M.; Anterior Cervical Interbody Fusion with Threaded Cylindrical Bone; J. Neurosurg 63:750-753 (November 1985).
	Rathke, F.W., et al.; Surgery of the Spine; Atlas of Orthopaedic Operations, Vol. 1, p. 137, W.B. Saunders Co., Philadelphia (1979).
	Raveh, J., et al.; Neue Rekonstruktionsmöglichkeiten des Unterkiefers bei knöchernen Defekten nach Tumorresektionen; Der Chirurg Vol. 53:459-467 (1982).
	Raveh, J., et al.; Use of the Titanium-coated Hollow Screw and Reconstruction Plate System in Bridging of Lower Jaw Defects; J. Oral Maxillofac Surg. 42:281-294 (1984).
	Raveh, J., et al.; Surgical Procedures for Reconstruction of the Lower Jaw Using the Titanium-Coated Hollow-Screw Reconstruction Plate System: Bridging of Defects; Otolaryngologic Clinics of North America; Vol. 20, No. 3 (August 1987).
	Schmitz et al.; Performance of Alloplastic Materials and Design of an Artificial Disc; The Artificial Disc; Brock, Mayer, Weigel; pp. 23-34 (1991).
	Thieme; Fusion of the Lumbar Spine; Anterior Monosegmental Fusion L5-S1; Atlas of Spinal Operations, pp. 270-274 (1993)
	Whatmore, W.J.; Sincipital Encephalomeningoceles; Brit. J. Surg., Vol. 60, No. 4, pp. 261-270 (April 1973).
	Whatmore, W.J.; Meningioma Following Trauma; Brit. J. Surg., Vol. 60, No. 6, pp. 496-498 (June 1973).
	Whatmore, W.J.; The Coventry Cervical Spreader and Dowel Insert; ACTA Neurochirurgica, Vol. 70, FASC. 1-2 (1984).
	Whatmore, W.J.; Proceedings of the Society of British Neurological Surgeons; Journal of Neurology, Neurosurgery, and Psychiatry, 50:1093-1100 (1987).
✓	Zindrick et al.; Lumbar Spine Fusion: Different Types and Indications; The Lumbar Spine, Vol. 1, Second Edition, pp. 588-593 (1996).
EXAMINER	DATE CONSIDERED
MB	7/25/00

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.



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